ABSTRACT OF THE DISCLOSURE

Disclosed is a method of forming the isolation film in the semiconductor device which can prevent concentration of an electric field by forming a dual slant angle at the top corner of the trench in the course of forming the trench. A fter a photoresist pattern containing silicon components or an amorphous silicon film is formed on a pad oxide film instead of a pad nitride film, the surface of the photoresist pattern or the amorphous silicon film is oxidized so that the oxidized portion is fused with the isolation film. A ccordingly, it is possible to prevent generation of a moat in the course of removing the photoresist pattern and the pad oxide film after the trench is buried with an insulating material. T herefore, the disclosed method can improve reliability of the process and an electrical characteristic of the resulting device.

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